

**DII COE Printing  
Services  
Architecture Oversight  
Group Briefing**  
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Easy Software Products

*Approved for Public Web  
Release*

# Why?

- Printing under UNIX is hard.
- There is no standard printer driver interface, thus no standard printer drivers.
- Vendors generally do not support UNIX.
- DII COE users need better printing capabilities than standard UNIX (or Windows) printing services can provide.

# Overview

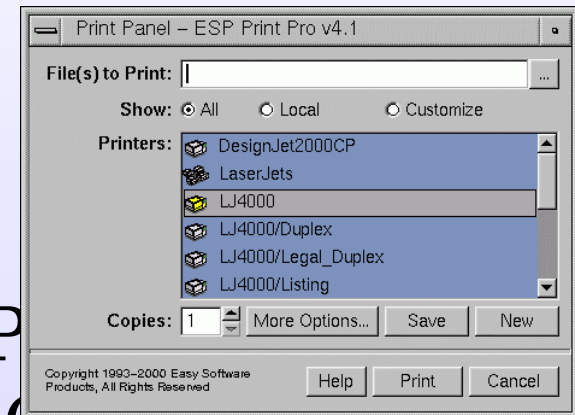
- ESP Print Pro replaces the existing printing system (lp, lpsched, etc.) with the Common UNIX Printing System (“CUPS”).
- CUPS is based on the Internet Printing Protocol while providing all of the same printing commands from the old printing systems.

# Overview (con't)

- ESP Print Pro provides PostScript and image file RIPs for printing to non-PostScript printers.
- ESP Print Pro can support Windows clients via SAMBA or IPP.
- ESP Print Pro can support legacy UNIX clients via LPD.

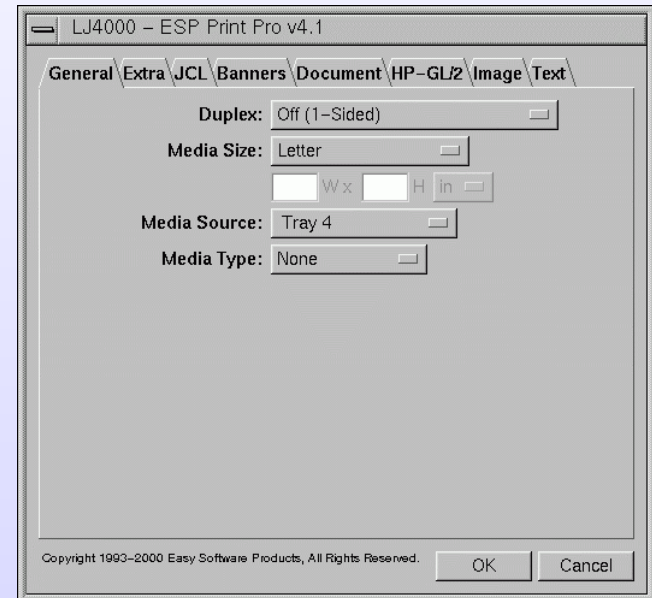
# Graphical Interfaces

- ESP Print Pro provides several graphical interfaces for printing.
- On the right is the Print Panel which can be used by all COE applications to print.
- The Print Panel allows you to choose the server, printer, and options you need for a particular print job.



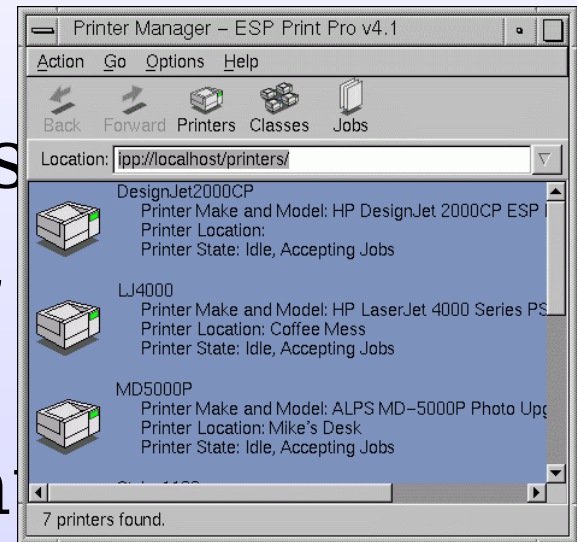
# Graphical Interfaces (con't)

- The printer options panel shows all available options for a printer.



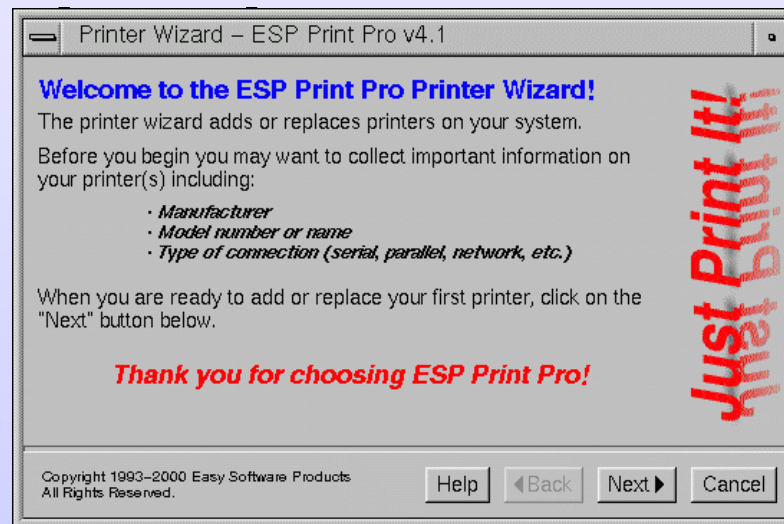
# Graphical Interfaces (con't)

- The Printer Manager window provides access to all printers, classes, and jobs.
- The system administrator can add, modify, and delete printers and classes via GUI wizards.



# Printer Configuration

- Printers are configured using the Printer Wizard.
- The Printer Wizard works just like the Windows wizard, asking you the appropriate questions





# Printer Configuration (con't)

Printer Wizard - ESP Print Pro v4.1

### Printer Name and Location

Each printer on your system must be named. A printer name can be a string of up to 127 letters, numbers, and underscores.

Examples:

- LaserJet
- DJ855C
- ChemistryDeptLJ4
- Phaser560\_Lgl

Printer Name:

Printer Location:

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Printer Wizard - ESP Print Pro v4.1

### Printer Connection

Each printer will either be connected directly to your system via a serial or parallel port or can be accessed over the network.

My Printer is Connected Via:

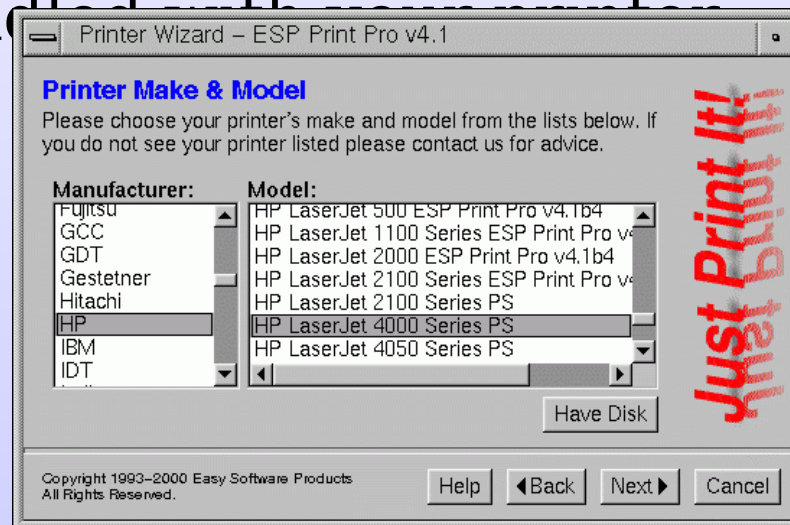
- ☐ Serial Port
- ☐ Parallel or USB Port
- ☐ HP JetDirect or AppSocket
- ☐ LPD/LPR Host/Printer
- ☐ Windows 95/98/NT Server via SAMBA
- ☐ Internet Printing Protocol

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# Printer Configuration (con't)

- ESP Print Pro includes drivers for thousands of printers. If you don't see your printer listed and the printer supports PostScript, use the PPD file from the Windows driver CD that came bundled with your printer.



# Security Configuration

- ESP Print Pro automatically detects the system-high classification when the security banner (SECBNR) segment is loaded.
- When the classification is set on the system, all print jobs will be marked with that classification and banner pages are printed before and after the job with the classification and security instructions.
- Caveats can be included by entering a page label string under the “Banners” tab of the printer options panel. This label is added to the end of the classification string at the top and bottom of each page.

# Windows Client Configuration

- Windows clients print through the SAMBA (CIFS) software which runs on the UNIX server.
- The 4.4.0.0 ESP Print Pro and SAMBA segments will provide drivers to Windows NT and 2000 clients automatically, including per-page security markings and caveats.

# ESP Print Pro Segments

- ESP Print Pro is provided in three segments:
  - PRINTS provides the standard CUPS server and encryption services.
  - PRINTD provides the printer driver files.
  - PRINTC provides a dumb client configuration.

# System Requirements

- ESP Print Pro will run on any DII COE system running Solaris 7, Solaris 8, or HP-UX 11.
- A typical server should have at least 128MB of RAM and 400MB of free disk space for print and temporary files.
- A standard client should have at least 32MB of RAM and 100MB of free disk space for print and temporary files.
- A dumb client should have at least 16MB of RAM and needs no additional disk space.
- Detailed configuration guidance can be found at:
  - <http://www.easysw.com/printpro/estimator.php>

# Web Resources

- ESP Print Pro pages for DII COE:
  - <http://www.easysw.com/diicoe/>
- ESP Print Pro system requirements estimator:
  - <http://www.easysw.com/printpro/estimator.php>
- ESP Print Pro supported printers search engine:
  - <http://www.easysw.com/printpro/printers.cgi>